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AMSAT NEWS SERVICE
ANS-114

The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT, The Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on http://www.amsat.org publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to: ans-editor [at] amsat.org

You can sign up for free e-mail delivery of the AMSAT News Service Bulletins via the ANS List; to join this list see: https://mailman.amsat.org/postorius/lists/ans.amsat.org/

In this edition:

* AMSAT Hamvention Update
* MIR-SAT 1 (MO112) has de-orbited
* Ron Parsons, W5RKN SK April 19, 2022
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* ARISS News
* Upcoming Satellite Operations
* Hamfests, Conventions, Maker Faires, and Other Events
* Satellite Shorts From All Over

ANS-114 AMSAT News Service Weekly Bulletins

To: All RADIO AMATEURS
From: Radio Amateur Satellite Corporation
712 H Street NE, Suite 1653
Washington, DC 20002

DATE 2022 Apr 24

AMSAT Hamvention Update:

The Dayton Hamvention is four weeks away! It is time to be creating your shopping list and making your travel plans. AMSAT's presence will be felt in with eight adjoining booths in Building 1. Highlighting the exhibit will be:

- CubeSat Simulator hardware and software demonstrations
- SatPC software demonstrations
- AMSAT Engineering staff question and answer table
- AMSAT Youth Initiative (KidzSat) introduction
- OSCAR ground station for live satellite operations
- Annual Membership sign-up and renewals
- AMSAT President's Club recognition
- AMSAT Board of Directors and Senior Officers Meet and Greet
- AMSAT Store offering AMSAT trinkets, books and Arrow Antennas

In past years, we had 30 people assist with the AMSAT booth at Dayton. We've

had a good response so far to our call for volunteers, but we could really use another 10-15 people. The 2022 Hamvention is May 20-22 in Xenia, Ohio. Would you consider helping AMSAT at the Hamvention this year?

The interaction with AMSAT members, satellite operators, designers, and builders makes the whole experience a lot of fun. Meet or renew acquaintances, exchange operating tips, and find out what antennas, software and equipment other AMSAT members use. We currently expect the AMSAT senior officers and board members to be there too.

If you're an experienced operator, great! We can use you and your experience.

If you've never operated a satellite before, but want to learn more, that's OK. We can use your help too.

Whether you're available for only a couple of hours or if you can spend the entire weekend with us, your help would be greatly appreciated. Please send an e-mail to Phil, (w1eme[at]amsat[dot]org if you can help. Thank you!

AMSAT/TAPR Banquet will honor the life of Bob Bruninga, WB4APR
The 13th annual AMSAT/TAPR Banquet will be held at the Kohler Presidential Banquet Center on Friday, May 20th at 18:30 EDT. This dinner is always a highlight of the AMSAT (Radio Amateur Satellite Corp.) and TAPR (Tucson Amateur Packet Radio) activities during the Dayton Hamvention. This year's banquet will honor the life and accomplishments of long time amateur satellite and amateur packet pioneer Bob Bruninga, WB4APR, who passed away in February.

The Kohler Presidential Banquet Center is located at 4548 Presidential Way, Kettering, Ohio. That is about 20 minutes away from the Greene County Fairgrounds.

Tickets ($57 each) may be purchased from the AMSAT store. The banquet ticket purchase deadline is Friday, May 13th. Banquet tickets must be purchased in advance and will not be sold at the AMSAT booth. There will be no tickets to pick up at the AMSAT booth. Tickets purchased on-line will be maintained on a list with check-in at the door at the banquet center. Seating is limited to the number of meals reserved with the Kohler caterers based on the number of tickets sold by the deadline.
Register today at
https://www.amsat.org/product/amsat-tapr-joint-hamvention-banquet-registration/

[ANS thanks Phil Smith, W1EME, AMSAT Hamvention Exhibit organizer, AMSAT News & TAPR for the above information]

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Lecturer of the Department of Electrical and Electronic Engineering, Faculty of Engineering of the University of Mauritius). Yogesh, member of this forum led a team of UoM students who build their own ground station. This was at 01:36 Hrs local time this morning and JA0CAW (Tetsu, an experience Satellite HAM) confirmed to me by mail that no signals was received from MIR-SAT 1 at 05:03 (MRU time). More many other regular reporting HAMs confirmed to me that no signals received from our bird today.
This confirms that MIR-SAT 1 re-entered between 01:36 and 05:03 Hrs and probably burned up around 110Km in a blast of flame, unfortunately the location is not known as mainly over oceans during the time window.
I also confirm that a few minutes before last observation from Yogesh that I received the TLM of MIR-SAT 1 and also made successful Digipeats through it (see attached screenshot), the bird was at about 160km altitude at that time, this was my farewell to MO-112.
Congratulations to Yogesh to be the last recorded person on this planet to have successfully decoded our 3B8 bird.
RIP MIR-SAT 1, you have been a great tool for educational and HAM experiments.
One page turned and the next (better) opens, MIR-SAT 2 ??? why not?, just a question of vision, willingness, motivation and hard work. 73, Jean Marc, 3B8DU"

[ANS thanks Jean Marc Momple, 3B8DU for the above information]

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DM29, DM36, and maybe DM37 and DM38. April 25 through April 30th 2022. List of passes at https://bit.ly/3OG3jdt

[ANS thanks Paul Overn, KE0PBR, AMSAT rover page manager for the above information]

Changes to AMSAT-NA TLE Distribution for April 21, 2022

The following satellites have decayed from orbit and has been removed from this week's AMSAT-NA TLE distribution.

STARS-EC NORAD Cat ID 47928 (decayed form orbit on 4/15/2022 per Space-Track).
OPUSAT-II NORAD Cat ID 47930 (decayed form orbit on 4/15/2022 per Space-Track).
MO-112 (MIR-SAT 1) NORAD Cat ID 48868 (decayed form orbit on 4/18/2022 per Space-Track).

[ANS thanks Ray Hoad, WA5QGD, AMSAT Orbital Elements Manager, for the above information]

Hamfests, Conventions, Maker Faires, and Other Events

AMSAT Ambassadors provide presentations, demonstrate communicating through amateur satellites, and host information tables at club meetings, hamfests, conventions, maker faires, and other events.

AMSAT Ambassador Schedules

Scheduled Events with AMSAT involvement:

+ CubeSat Developers Workshop
  April 26-28, 2022
  San Luis Obispo, CA

+ Hamvention 2022
  May 20, 2022 to May 22, 2022
  Greene County Fairgrounds and Expo Center
  210 Fairground Road
  Xenia, Ohio 45385
  https://www.hamvention.org

+ 2022 Rocky Mountain ARRL Division Convention
  October 7, 2022 - October 9, 2022
  Event Center at Archer
  3921 Archer Pkwy
  Cheyenne, Wyoming 82007
  https://wyhamcon.org/site.

[ANS thanks Paul Overn, KE0PBR, AMSAT Events Page Manager, for the above information]

Satellite Shorts From All Over

+ Ax-1. Commanded by Spanish-American Michael Lopez-Alegria on his fifth trip to the ISS, and accompanied by pilot Larry Connor (US) and mission specialists Eytan Stibbe (Israel) and Mark Pathy (Canada), Ax-1 has conducted the first all-commercial crewed mission to the station. Delayed by

weather, the team will soon depart the ISS and will splash down off the coast of Florida after spending about 10 days in space and a bit more than a week on the ISS. More at https://bit.ly/3v37PdT [ANS thanks The Orbital Index for the above information]

+ SLS Wet Dress Rehearsal update. After three attempts, each ending in an abort, unexpectedly high lox temperatures, a helium check valve failure on the SLS's second stage, and a hydrogen leak on the mobile platform's service mast umbilical. NASA is now rolling the fully stacked SLS back to the VAB to fix some of these issues and upgrade the mobile launcher's gaseous nitrogen (GN2) supply. What was optimistically supposed to be a two-day test took three weeks, and Artemis I is probably not launching before the end of the summer (although NASA said Monday that they are currently hoping to make a beginning of July launch window). We definitely want to see Artemis I go well (especially for those 10 plucky little rideshare science missions), and these growing pains are better worked out now than on a future crewed mission, but the whole thing just feels kind of arduous. More at https://bit.ly/3v37PdT [ANS thanks The Orbital Index for the above information]

+ The Great Solar Eclipse of 2024. Perhaps we're getting ahead of ourselves, but it pays to start planning early. Where will you be in approximately two years? Andrew had the chance to watch 2017's total solar eclipse from Idaho and was blown away by how visceral the experience was, complete with a storm of moths that materialized out of nowhere as if through transient solar abiogenesis. For those of us in North America, the next (and last until 2044) opportunity for a total solar eclipse is on April 8th, 2024. You don't want to miss this! More at https://bit.ly/3v37PdT [ANS thanks The Orbital Index for the above information]

+ ULA begins stacking Atlas 5 rocket for Boeing's Starliner test flight. Final assembly of a United Launch Alliance Atlas 5 rocket began Wednesday with the hoisting of a first stage booster onto a mobile launch platform at Cape Canaveral, kicking off a campaign to prepare for liftoff May 19 on a delayed unpiloted test flight of Boeing's Starliner crew capsule. ULA's ground team raised the Atlas first stage off its trailer transporter, and a crane lifted the rocket into the Vertical Integration Facility Wednesday morning. The 107-foot-tall (33-meter) rocket stage was then lowered onto the Atlas 5's mobile launch platform inside the integration building just south of ULA's launch pad at Space Launch Complex 41. The milestone event Wednesday, known as Launch Vehicle On Stand, will be followed in the coming days by the addition of two strap-on AJ-60A solid rocket boosters made by Aerojet Rocketdyne. Then a dual-engine Centaur upper stage will be raised on top of the Atlas first stage to complete the initial build-up of the launcher. In early May, Boeing and ULA will move the Starliner spacecraft from its hangar at the Kennedy Space Center to the VIF for stacking atop the Atlas 5. The launch preparations will culminate in rollout of the Atlas 5 rocket and Starliner spacecraft to pad 41 on May 18. Liftoff to begin Boeing's Orbital Flight Test 2 mission to the International Space Station is scheduled for 6:54 p.m. EDT (2254 GMT). More at https://bit.ly/3vCZkpe [ANS thanks Stephen Clark, Spaceflight Now for the above information]

Join AMSAT today at https://launch.amsat.org/

In addition to regular membership, AMSAT offers membership to:

* Societies (a recognized group, clubs or organization).
* Primary and secondary school students are eligible for membership at one-half the standard yearly rate.
* Post-secondary school students enrolled in at least half time status shall be eligible for the student rate for a maximum of 6 post-secondary years in

this status.
* Memberships are available for annual and lifetime terms.

Contact info [at] amsat.org for additional membership information.

73 and remember to help Keep Amateur Radio in Space!

This week's ANS Editor, Jack Spitznagel, KD4IZ
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